

Appl. No. 10/788,748
Amdt. Dated Sep. 5, 2005
Reply to Office Action of June 3, 2005

REMARKS

By the above amendments, claims 1, 9, 11 and 13 have been amended in response to the rejections. Claim 10 has been amended in respect of informalities. Claims 7, 8, 12 and 14 have been canceled without prejudice. Newly added claim 15 represents part of the subject matter of original claim 9, and accordingly no new matter has been entered. Assuming that claim 15 is entered, claims 1-6, 9-11, 13 and 15 are currently pending in the application.

Amended claim 1 has had the limitations of original claims 7 and 8 added thereto. Amended claim 9 has had the limitations of original claim 12 added thereto.

Claim Rejections under 35 U.S.C. 102

Claims 1-3, 7, and 13-14 are rejected under 35 U.S.C. 102(b) as being anticipated by Moon U.S. Application Publication No. 2001/0026335.

In response to the rejection, applicant has: (i) canceled claims 7 and 8 , and amended claim 1 by adding the limitations of claims 7 and 8 thereto; and (ii) canceled claim 14, and amended claim 13 by adding the limitations of claims 14 and 8 thereto. Applicant submits that the rejection is now overcome, as follows:

In the Office action under Allowable Subject Matter, it is stated that "claims 8, and 12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims."

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Amended claim 1 now recites “[a] color filter for use in a liquid crystal display, comprising: a substrate having two surfaces; a polarizer matrix having a first polarization direction formed on one surface of said substrate and defining a plurality of openings; a color filter layer formed on said substrate in the openings of said polarizer matrix; and a polarizer film having a second polarization direction formed on another surface of said substrate; wherein the second polarization direction of said polarizer film is perpendicular to the first polarization direction of said polarizer matrix.”

Accordingly, the art cited by Examiner does not teach, disclose or suggest all the limitations of the color filter recited in amended claim 1. Amended claim 1 is submitted to be patentable, and reconsideration and withdrawal of the rejection and allowance of amended claim 1 are respectfully requested.

Claims 2 and 3 depend directly from independent claim 1, and therefore should also be allowable.

Amended claim 13 now recites “[a] color filter for use in a liquid crystal display device, comprising: a substrate having opposite first and second surfaces; polarizer areas, having a first polarization direction, formed on the first surface of said substrate and defining a plurality of openings therebetween; a color filter layer formed at the first surface of said substrate at least in the openings of said polarizer areas; and a polarizer film, having a second polarization direction, formed on the

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second surface; wherein the first polarization direction of said polarizer areas is perpendicular to the second polarization direction of said polarizer film."

It is noted that the limitations of claim 14 are substantially the same as the limitations of claim 7. For reasons similar to those asserted above in relation to claim 1, it is submitted that the art cited by Examiner does not teach, disclose or suggest all the limitations of the color filter recited in amended claim 13. Amended claim 13 is submitted to be patentable, and reconsideration and withdrawal of the rejection and allowance of amended claim 13 are respectfully requested.

Claim Rejections under 35 U.S.C. 103

Claims 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Moon in view of Makino U.S. Patent No. 6,259,505.

As detailed above, amended claim 1 is submitted to be patentable. Claim 4 depends directly from claim 1, and therefore should also be patentable. Thus, reconsideration and withdrawal of the rejection and allowance of claim 4 are respectfully requested.

Claims 5-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Moon in view of Makino as discussed above, and further in view of Mun et al U.S. Patent Application Publication No. 2002/0033927.

As detailed above, amended claim 1 is submitted to be patentable.

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Claims 5 and 6 depend indirectly from claim 1, and therefore should also be patentable. Thus, reconsideration and withdrawal of the rejection and allowance of claims 5 and 6 are respectfully requested.

Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Moon in view of Chen et al U.S. Patent No. 5,340,619.

In response to the rejection, applicant has: (i) canceled claim 12; and (ii) amended claim 9 by adding certain of the limitations of claim 11 thereinto, by adding the limitation of claim 12 thereinto, and by removing one of the limitations therefrom. Applicant now traverses the rejection as follows:

In the Office action under Allowable Subject Matter, it is stated that "claims 8, and 12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims." Further, in the statement of reasons for the indication of allowable subject matter, it is stated that "[n]one of prior art taught or disclosed a color filter for use in a liquid crystal display device, comprising: a substrate having two surfaces; a polarizer matrix having a first polarization direction formed on one surface of said substrate defining a plurality of openings; a color filter layer formed on said substrate in the openings of said polarizer matrix; [and] a polarizer film having a second polarization direction formed on another surface of said substrate; wherein the second polarization direction of said polarizer is perpendicular to the first polarization direction of said polarizer matrix."

Further, on p.5 of the Office action, it is stated that "[c]uring the

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substrate in an oven is a conventional step in manufacturing [a] liquid crystal display device ...”

Amended claim 9 now recites in pertinent part “[a] method of manufacturing a color filter, which comprises the steps of: (a) providing a substrate having a first surface and a second surface; (b) forming a polarizer matrix on the first surface of the substrate, the polarizer matrix defining a plurality of openings and having a first polarization direction; (c) forming a color filter layer on the substrate in the openings of the polarizer matrix; and (d) forming a polarizer film on the second surface of the substrate, the polarizer film having a second polarization direction perpendicular to the first polarization direction of the polarizer matrix.”

For reasons similar to those asserted above in relation to claim 1, and having regard to the statement of reasons for indication of allowable subject matter, and having further regard to the statement on p.5 of the Office action, it is submitted that the art cited by Examiner does not teach, disclose or suggest all the limitations of the method recited in amended claim 9. Amended claim 9 is submitted to be patentable, and reconsideration and withdrawal of the rejection and allowance of amended claim 9 are respectfully requested.

Claims 10-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Moon in view of Chen et al as discussed above, and further in view of Boone U.S. Patent No. 2,699,706.

As detailed above, amended claim 9 is submitted to be patentable.

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Claims 10-11 depend directly from claim 9, and therefore should also be patentable. Thus, reconsideration and withdrawal of the rejection and allowance of claims 10-11 are respectfully requested.

Allowable Subject Matter

It is stated that "claims 8, and 12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims."

In the statement of reasons for the indication of allowable subject matter, it is stated that "[n]one of prior art taught or disclosed a color filter for use in a liquid crystal display device, comprising: a substrate having two surfaces; a polarizer matrix having a first polarization direction formed on one surface of said substrate defining a plurality of openings; a color filter layer formed on said substrate in the openings of said polarizer matrix; [and] a polarizer film having a second polarization direction formed on another surface of said substrate; wherein the second polarization direction of said polarizer is perpendicular to the first polarization direction of said polarizer matrix."

Amended claim 1 now recites "[a] color filter for use in a liquid crystal display, comprising: a substrate having two surfaces; a polarizer matrix having a first polarization direction formed on one surface of said substrate and defining a plurality of openings; a color filter layer formed on said substrate in the openings of said polarizer matrix; and a polarizer film having a second polarization direction formed on another

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surface of said substrate; wherein the second polarization direction of said polarizer film is perpendicular to the first polarization direction of said polarizer matrix.”

As detailed above, it is submitted that the art cited by Examiner does not teach, disclose or suggest all the limitations of the color filter recited in amended claim 1. Amended claim 1 is submitted to be patentable, and allowance thereof is respectfully requested.

Claims 2-6 depend directly or indirectly from independent claim 1, and therefore should also be allowable.

Amended claim 9 now recites in pertinent part “[a] method of manufacturing a color filter, which comprises the steps of: (a) providing a substrate having a first surface and a second surface; (b) forming a polarizer matrix on the first surface of the substrate, the polarizer matrix defining a plurality of openings and having a first polarization direction; (c) forming a color filter layer on the substrate in the openings of the polarizer matrix; and (d) forming a polarizer film on the second surface of the substrate, the polarizer film having a second polarization direction perpendicular to the first polarization direction of the polarizer matrix.”

As detailed above, it is submitted that the art cited by Examiner does not teach, disclose or suggest all the limitations of the method recited in amended claim 9. Amended claim 9 is submitted to be patentable, and allowance thereof is respectfully requested.

Claims 10 and 11 depend directly from independent claim 9, and

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therefore should also be allowable.

Newly added claim 15 represents the limitation removed from original claim 9, and depends from amended claim 9. Accordingly, new claim 15 is submitted to be patentable, and allowance thereof is respectfully requested.

In view of the foregoing, the present application as claimed in the pending claims is considered to be in a condition for allowance, and an action to such effect is earnestly solicited.

Respectfully submitted,
Sheng-Shiou Yeh et al

By _____

Wei Te Chung

Registration No.: 43,325
Foxconn International, Inc.
P.O. Address: 1650 Memorex Drive, Santa Clara, CA 95050
Tel. No.: (408) 919-6137